ACM TRANSACTIONS ON DATABASE SYSTEMS

Volume 8 · 1983

Editor-in-Chief	Robert W. Taylor	
Associate Editors	Francois Bancilhon	James B. Rothnie
	Rudolf Bayer	Gerald Salton
	Philip A. Bernstein	Arie Shoshani
	David J. DeWitt	Gio Wiederhold
	Michael Hammer	
	Stuart E. Madnick	

Published by the Association for Computing Machinery

Copyright © 1983, Association for Computing Machinery, Inc.
11 West 42nd Street, New York, NY 10036

Volume 8 · 1983
Contributed Papers

ALAVIAN, F., SEE Cardenas, A.F.

ALLMAN, E., SEE Stonebraker, M.

AVIZIENIS, A., SEE Cardenas, A.F.

465 BERNSTEIN, P.A., Multiversion Concurrency Control—Theory and Algorithms

608 BISKUP, J., A Foundation of Codd's Relational Maybe-Operations

255 BITTON, D., Duplicate Record Elimination in Large Data Files

324 ——, Parallel Algorithms for the Execution of Relational Database Operations

BORAL, H., SEE Bitton D., Parallel Algorithms for the Execution of Relational Database Operations

291 CARDENAS, A.F., Performance of Recovery Architectures in Parallel Associative Database Processors

577 CERI, S., Correctness of Query Execution Strategies in Distributed Databases

214 CLIFFORD, J., Formal Semantics for Time in Databases

60 DE JONGE, W., Compromising Statistical Responding to Queries About Means

——, SEE Sicherman, G. L.

DEWITT, D.J., SEE Bitton, D., Duplicate Record Elimination in Large Data Files

——, SEE Bitton, D., Parallel Algorithms for the Execution of Relational Database Operations

354 EAGER, D.L., Achieving Robustness in Distributed Database Systems

GABBE, J.D., SEE Hecht, M.S.

186 GARCIA-MOLINA, H., Using Semantic Knowledge for Transaction Processing in a Distributed Database

GOODMAN, N., SEE Bernstein, P.A.

81 GRAHAM, M.H., Functions in Databases

HARTSON, H.R., SEE Trueblood, R.P.

15 HASKIN, R.L., Operational Characteristics of a Hardware-Based Pattern Matcher

503 HECHT, M.S., Shadowed Management of Free Disk Pages with a Linked List

HOLLAAR, L.A., SEE Haskin, R.L.

410 ITO, T., Hierarchical File Organization and Its Application to Similar-String Matching

110 KATZ, R.H., Resolving Conflicts in Global Storage Design Through Replication
KIZAWA, M., SEE Ito, T.
434 KOLODNER, J.L., Indexing and Retrieval Strategies for Natural Language Fact Retrieval
LLOYD, J.W., SEE Ramamohanarao, K.
136 LOMET, D.B., Bounded Index Exponential Hashing
484 LYNCH, N.A., Multilevel Atomicity—A New Correctness Criterion for Database Concurrency Control
1 MAIER, D., Maximal Objects and the Semantics of Universal Relation Databases
515 MALHOTRA, A., EAS-E: An Integrated Approach to Application Development
MARKOWITZ, H.M., SEE Malhotra, A.
MARTIN, J.J., SEE Trueblood, R.P.
MEYER, M., SEE Stonebraker, M.
543 MORAN, S., On the Complexity of Designing Optimal Partial-Match Retrieval Systems
MURPHY, M., SEE Stonebraker, M.
PAZEL, D.P., SEE Malhotra, A.
PELAGATTI, G., SEE Ceri, S.
552 RAMAMOHANARAO, K., Partial-Match Retrieval Using Hashing and Descriptors
RANSTROM, J., SEE Stonebraker, M.
266 SAGIV, Y., A Characterization of Globally Consistent Databases and Their Correct Access Paths
SEVCIK, K.C., SEE Eager, D.L.
41 SICHERMAN, G.L., Answering Queries Without Revealing Secrets
167 STONEBRAKER, M., Performance Enhancements to a Relational Database System
THOM, J.A., SEE Ramamohanarao, K.
382 TRUEBLOOD, R.P., MULTISAFE—A Modular Multiprocessing Approach to Secure Database Management
ULLMANN, J.D., SEE Maier, D.
VAN DE RIET, R.P., SEE Sicherman, G.L.
WARREN, D.S., SEE Clifford, J.
WONG, E., SEE Katz, R.H.
WILKINSON, W.K., SEE Bitton, D., Parallel Algorithms for the Execution of Relational Database Operations
WOODFILL, J., SEE Stonebraker, M.

Technical Correspondence

644 KENT, W., The Universal Relation Revisited
637 ULLMAN, J.D., On Kent's "Consequences of Assuming a Universal Relation"

Corrigendum

287 ULLMAN, J.D., The Theory of Joins in Relational Databases